

(12) SOLICITUD INTERNACIONAL PUBLICADA EN VIRTUD DEL TRATADO DE COOPERACIÓN  
EN MATERIA DE PATENTES (PCT)

(19) Organización Mundial de la Propiedad  
Intelectual  
Oficina internacional



(43) Fecha de publicación internacional  
6 de Mayo de 2004 (06.05.2004)

PCT

(10) Número de Publicación Internacional  
WO 2004/037366 A1

(51) Clasificación Internacional de Patentes<sup>7</sup>: A63H 18/16,  
18/12, G08C 15/12

(21) Número de la solicitud internacional:  
PCT/ES2002/000500

(22) Fecha de presentación internacional:  
22 de Octubre de 2002 (22.10.2002)

(25) Idioma de presentación: español

(26) Idioma de publicación: español

(71) Solicitante (para todos los Estados designados salvo  
US): WINKLER INTERNATIONAL, SA [LU/LU]; 15,  
boulevard Roosevelt, L-2450 Luxembourg (LU).

(72) Inventores; e

(75) Inventores/Solicitantes (para US solamente): ARNAU  
MANRESA, Luis M. [ES/ES]; Via Augusta, 312, E-08017

Barcelona (ES). DOMINGO GARCIA, Ignacio [ES/ES];  
c/ Francisco Lozano, 5, E-28008 Madrid (ES). ORTIZ  
ONTORIA, Rafael [ES/ES]; Av. Dr. Garcia Tapia, 220,  
E-28030 Madrid (ES). LOPEZ SAIZ, Andrés [ES/ES]; c/  
Carcastillo, 33, E-28025 Madrid (ES).

(74) Mandatario: MANRESA VAL, Manuel; Rambla  
Catalunya, 32, E-08007 Barcelona (ES).

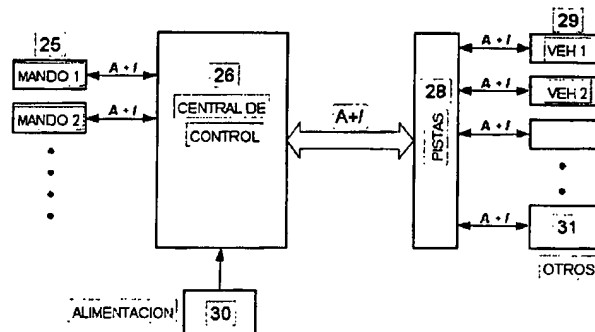
(81) Estados designados (nacional): AE, AG, AL, AM, AT,  
AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR,  
CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,  
MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU,  
SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,  
US, UZ, VN, YU, ZA, ZM, ZW.

(84) Estados designados (regional): patente ARIPO (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), patente  
euroasiática (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continúa en la página siguiente]

(54) Title: CONTROL SYSTEM AND METHOD FOR ELECTRIC TOY VEHICLES

(54) Título: SISTEMA Y METODO DE CONTROL PARA VEHICULOS ELECTRICOS DE JUGUETE



25. CONTROL  
26. CONTROL UNIT  
30. POWER SUPPLY  
28. TRACKS  
29. VEHICLE  
31. OTHERS

(57) Abstract: The invention relates to a control system and method for electric toy vehicles. The invention is suitable for vehicles which are controlled using a control element, which are actuated by an electric micromotor and which move on tracks comprising a guide groove which is flanked by electronductive tracks. Moreover, each vehicle is provided with a dynamic current collector and guide assembly comprising a guide flange which keeps the vehicle on the track. The inventive system comprises a transmitting control device which is associated with the above-mentioned control element in order to transmit signals in the form of digital waves which control the operation of the vehicle, a control device which receives the aforementioned signals and which is built into the vehicle, and actuation means which are connected to said receiving device. According to the invention, the signals are applied to at least one electronductive track which can be shared temporarily by at least two vehicles equipped with respective receivers.

[Continúa en la página siguiente]

WO 2004/037366 A1